

IN THE CLAIMS

Claims 1-9 (Cancelled).

10. (Currently Amended) A solid-electrolyte secondary battery comprising:

(a) a positive electrode;

(b) a negative electrode;

(c) a solid electrolyte comprising a matrix polymer comprising a first fluorocarbon polymer having a weight-average molecular weight of greater than 550,000 and less than 1,000,000;

(d) wherein the matrix polymer further comprises a second fluorocarbon polymer having a weight-average molecular weight of greater than 300,000 and less than 550,000;

(e) wherein the matrix polymer comprises 30 percent or more by weight of the fluorocarbon polymer having a weight-average molecular weight of greater than 550,000 and less than 1,000,000;

(f) wherein the positive electrode has a face which is directed towards the negative electrode and the solid-electrolyte layer is formed on the face of the positive electrode and impregnates into the face a solution in which the solid electrolyte is dissolved;

(g) wherein the negative electrode has a face directed toward the positive electrode and the solid-electrolyte layer is formed on the face and impregnates into the face a solution in which the solid electrolyte is dissolved; and

(h) wherein the first and the second fluorocarbon polymer [[is]] are a polyvinylidene fluoride/hexafluoropropylene copolymer, wherein the content of hexafluoropropylene is not less than the copolymer is 1 % and not more than [[to]] 7 % by weight.

Claims 11-13 (Cancelled).

14. (Previously Presented) The solid-electrolyte secondary battery of Claim 10 wherein at least one of the positive and negative electrodes comprises a binder comprising the matrix polymer of the solid electrolyte.

15. (Previously Presented) The solid-electrolyte secondary battery of Claim 10 wherein the negative electrode comprises a material which is capable of intercalating or deintercalating a lithium ion.

16. (Previously Presented) The solid-electrolyte secondary battery of Claim 15 wherein the material which is capable of intercalating or deintercalating a lithium ion comprises a carbon material.

17. (Previously Presented) The solid-electrolyte secondary battery of Claim 10, wherein the positive electrode comprises a composite oxide of lithium and a transition metal.

Claims 18-29 (Cancelled).

30. (New) A solid-electrolyte secondary battery of claim 10, wherein a third fluorocarbon polymer having a weight-average molecular weight of not greater than the first fluorocarbon polymer and not less than the second fluorocarbon polymer, wherein the third fluorocarbon polymer is polyvinylidene fluoride/hexafluoropropylene copolymer, wherein the content of hexafluoropropylene is not less than 1 % and not more than 7 % by weight.